

WHAT IS CLAIMED IS:

1. A fuse box, comprising:
 - an intermediate case;
 - a lower case mounted on the intermediate case;
 - an upper case mounted on the intermediate case;
 - a large capacity fuse having an input terminal and an output terminal, the fuse also having long and short sides housed within the fuse box with the short sides being approximately perpendicular to the upper and lower cover to reduce the overall height of the fuse box;
 - an input-side bus bar abutting and connected to the input terminal; and
 - an output-side bus bar abutting and connected to the output terminal.
2. The fuse box according to claim 1, wherein the fuse box is mountable on an upper surface of a battery having a battery post, the fuse box further comprising a battery terminal fittable on the battery post and connected to the input terminal through the input-side bus bar.
3. The fuse box according to claim 2, wherein the input terminal rigidly connects with the battery terminal and the battery post of the battery so as to fix the fuse box to the battery and also form an electrical connection.
4. The fuse box according to claim 1, wherein the input terminal and the output terminal project from a side surface of the fuse in substantially opposite directions substantially parallel with the upper case.
5. The fuse box according to claim 1, wherein the upper and lower case lock with one another; the upper case has a first and second half that are divided by a hinge, the first half forming a lid that releasably attaches to the lower case.
6. The fuse box according to claim 1, wherein the intermediate case is formed from a nylon-based resin and the upper cover and lower cover are formed from polypropylene.
7. A fuse box that is mountable on an upper surface of a battery and directly connectable with a battery post of the battery to form an electrical connection, comprising:
 - a fuse box mountable to an upper surface of a battery;
 - a battery fuse accommodated in the fuse box having an input terminal and an output terminal;

a battery terminal having a pair of fastening pieces projecting from both ends of a circular arc portion fittable on the battery post;

an input-side bus bar accommodated in the fuse box;

a connection piece formed on the input-side bus bar that overlaps a side surface of one of the fastening pieces of the battery terminal, the connection piece being fastened to the input terminal of the battery fuse with a bolt, the connection piece also being formed with a bolt opening that communicates with a bolt opening of each of the fastening pieces; and

a bolt extendible through the bolt openings and a nut fastenable onto the bolt to fasten the connection piece and the fastening pieces together and to fasten the battery terminal onto the battery post.

8. A battery fuse according to claim 7, wherein the battery terminal, the input terminal and output terminal of the battery fuse, and the input-side bus bar are integrally formed from one electrically conductive plate and accommodated inside the fuse box.

9. A battery fuse according to claim 8, wherein the output terminal of the battery fuse is extended to form an output-side bus bar integral with the output terminal and the output-side bus bar is accommodated within the fuse box.

10. A battery fuse according to claim 1, wherein the battery terminal is accommodated in the fuse box and a circular arc portion of the battery terminal is exposed to the outside of the fuse box and fittable onto the battery post, the circular arc portion and the fastening pieces being tightenable by the bolt and nut to fix the fuse box onto the battery.